

**ABSTRACT**

Midway along an outer circulation passage provided outside a heating chamber, a steam generating device is arranged, and, through the outer circulation passage, steam is fed to the heating chamber. A control device controls a steam generating heater arranged inside the steam generating device and a vapor heating heater provided in a space through which an air stream flowing through the outer circulation passage is returned to the heating chamber, and forms a cooking sequence by using, singly or in combination, a first heating mode that uses superheated steam obtained as a result of the steam being heated with the vapor heating heater and a second heating mode that uses hot air or radiation heat obtained by making the vapor heating heater produce heat without supply of steam.